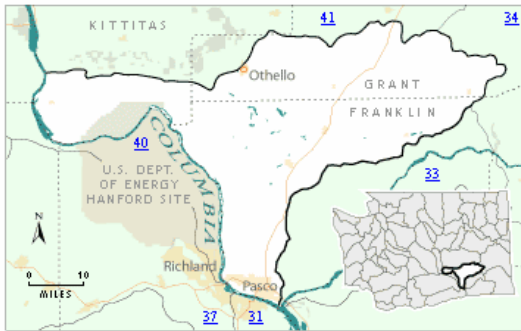


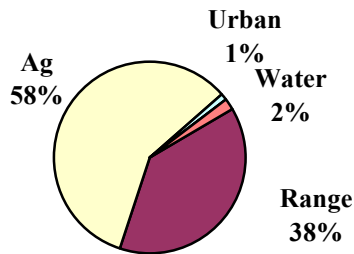
Esquatzel Coulee Basin - WRIA #36



WRIA #36 drains about 1,058,960 acres. This watershed is located within the Columbia Basin ecoregion. It receives only 6 inches of rainfall per year.

Demographics

Land use in the Esquatzel Basin



Land Base (in acres)

Federal	295,637	27.9%
State	32,889	3.1%
Local	-0-	-0-
Tribal	-0-	-0-
Private	730,434	69.0%

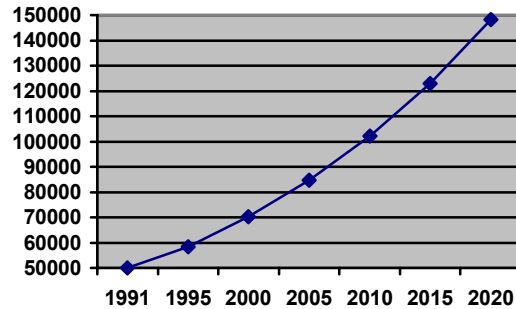
Principal Economic Activity (as total wages)

Agriculture	25%
Retail Trade	13%
Services	18%
Government	18%
Manufacturing	8%
Other	18%

Population

There are approximately 58,290 people living in the Esquatzel Coulee Basin. The primary population centers are Othello and Pasco. The majority of people live in unincorporated areas.

Projected population trends



Counties

Franklin (50%) Adams (33%)
Grant (17%)

Special purpose districts

Conservation Districts: Franklin; Adams; Warden
Irrigation Districts: Franklin County; South Columbia

Principal Cities

Pasco Othello
Connell Mattawa
Mesa Washtuca

Reservation Lands

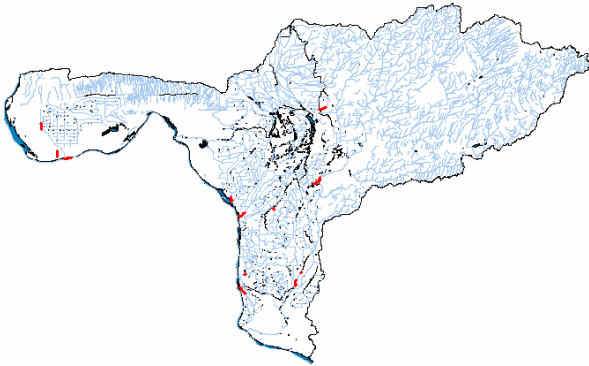
None

General Landscape

The scablands and loess islands were formed as immense floods periodically broke through the ice dams blocking glacial Lake Missoula during the Pleistocene. Soils are typically deep loess on hills and foothills. Potential natural vegetation is big sagebrush, bluebunch wheatgrass, Idaho fescue, and three-tip sagebrush.

Surface Water Quality

303(d) listed waterbodies



1. 303(d) Listed Problem Areas

High Temperature in East Potholes Canal, Eltopia Branch Canal, Esquatzel Coulee, Mattawa Drain, Mattawa Wasteway, Potholes Canal, Scbid PE 16.4 Wasteway, Scooteneey Wasteway, and WB5 Wasteway #1

Dissolved Oxygen in East Potholes Canal, Esquatzel Coulee, Potholes Canal, and Scooteneey Wasteway

pH in Columbia River, Esquatzel Coulee, and Scooteneey Wasteway

Total Maximum Daily Loads

1 TMDL required from the 1998 303(d) list

2. Impacted Beneficial Uses

Groundwater Quality

Nitrates – Levels detected > 10 mg/L

Pesticides – Have been detected in public wells.

Sole Source Aquifer

None

Water Quantity

No Concerns

Air Quality

(From windblown dust)

Approximately 121,818 fallow acres yearly

Public Health

Commercial Shellfish Growing Areas

None

Domestic Water Supply

Within this WRIA are large community water systems that significantly utilize surface water sources.

Salmonid Stock Status

Healthy

3. Water Quality Programs

1. TMDLs for Columbia River
2. Mid-Columbia Watershed Planning, Grant County
3. On-site Sewage Program, Benton-Franklin County Health
4. Mid-Columbia Basin Ground Water Management Area, Franklin/Adams/Grant County
5. Othello Water Quality Project, Othello CD
6. Columbia Basin Groundwater Management Area, Franklin CD/ Benton-Franklin County Health
7. DOE Franklin County Watershed Education Program, Franklin CD
8. Increase Irrigation Efficiencies Program, Franklin CD
9. DOE Crop Remote Sensing Project, Franklin CD
10. Groundwater Nitrate Implementation Project, Franklin CD
11. Dairy Nutrient Management Project, Franklin CD
1. Direct Seed Minimum Till Program, Adams CD
2. GWMA Program, Adams CD
3. Fecal Baseline Study, Adams CD
4. Baseline Lower Palouse River Study, Adams CD
5. BMP Implementation Program, Adams CD
6. Nitrate Education Program, Benton-Franklin County Health